☐ Fixed firefighting for galley vent hood system
(required on existing wood / FRP vessels)

46 CFR 181.400(d)
46 CFR 181.425
46 CFR 181.450

☐ Fire main system and stations

46 CFR 176.810(a)

- Fire main system tested
  - Piping
  - Valves
  - Fittings

46 CFR 181.310
(46 CFR 181.15)

46 CFR 176.810(c)

- Number hose stations required _____
- Fire hose
  - Minimum 5/8-inch hose and nozzle 25-50 feet in length
  - 1.5-inch hose and nozzle (required for vessels > 65 feet and vessels carrying > 49 passengers)
  - Nozzles and spanners

46 CFR 181.320
(46 CFR 181.15-10)

Number of Hoses Required	Number of Hoses On Board	Diameter of Each Hose	Length of Each Hose

☐ Fire axe
(vessels > 65 feet)

46 CFR 181.600
(46 CFR 181.35-1)

- Located in or near primary operating station
- Marked with vessel name

☐ Fire pumps tested
(ferry vessels carrying >49 passengers and all vessels > 65 feet)
NOTE: *If fire pump is NOT required, new vessels must have three 2.5 gallon buckets with an attached lanyard; each bucket must be marked with the vessel's name.*

46 CFR 181.300
(46 CFR 181.10)
46 CFR 181.610

- Piping
- Gauges
- Controls
- Manifold and valves
- Effective stream
- Strainers

Notes: _____

_____

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_____

Machinery:

☐ Main steering system tested

46 CFR 182.610
46 CFR 176.814
MSM Ch. C4

- Type _____
- Rudder packing
- Hoses

46 CFR 176.800

- Tubing
- Piping
- Tiller arms and connectors double-nutted / cotter pinned

☐ Auxiliary steering system (if required) operable

46 CFR 182.620
MSM Ch. C4

- Type _____

☐ Main propulsion engine tested

46 CFR 176.804
46 CFR 182.200

- Capable of being secured from pilothouse
  - Independent of speed control
- Foundations
- Controls

46 CFR 184.620(b)
(46 CFR 175.00-29)

- Gauges
  - Engine RPM / oil pressure / water temperature operational and visible at each operating station
    (existing vessels—only oil pressure / water temperature operational and visible)

46 CFR 182.410(b)
(46 CFR 182.15-5(b))
(46 CFR 182.20-5(b))

- Safety devices
- Carburetor drip collector
- Backfire flame arrestor

☐ Cooling system

46 CFR 182.420

- Type of engine cooling system _____

46 CFR 182.410

- Temperature gauges (operating station)

46 CFR 182.422

- Installation

Notes: _____

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☐ Lifejackets — 46 CFR 180.71

Adult _____ Children _____(10%)

- Retro-reflective tape — 46 CFR 185.604(h)
- Lights (vessels on oceans / coastwise / Great Lakes routes) — (46 CFR 180.25-25) 46 CFR 180.75 (46 CFR 180.25-20)
  - Watertight
  - Batteries dated or changed annually
- Marked with vessel name — 46 CFR 185.604(b)
- Stowage — (46 CFR 180.25-15) 46 CFR 180.78 (46 CFR 180.25-10) 46 CFR 185.604(f)
  - Marked
  - Child size PFDs separate from adult PFDs
  - Unlocked
  - If over 7 feet high, check quick release mechanism
  - PFDs carried in addition to lifejackets
- Number of lifejackets rejected by inspector _____ — 46 CFR 180.72

☐ Lifejacket donning placards posted — 46 CFR 185.516

☐ Ring lifebuoys — 46 CFR 180.70 (46 CFR 181.30-1) (46 CFR 181.30-10)

- Orange (vessels on oceans / coastwise routes)
- Lifeline (60 feet long)
- Waterlight with 3-foot lanyard and corrosion-resistant clip
- Retro-reflective tape — 46 CFR 185.604(i)
- Marked with vessel name — 46 CFR 185.604(a)
- Stowage (not permanently secured) — NVIC 1-87
- Vessels < 26 feet may carry 20-inch ring — 46 CFR 180.70(b)

Number with Lights	Number with Lines	Number of Others
Total Number of Ring Lifebuoys		

☐ First aid kit visible and readily available to the crew and properly marked “First Aid Kit” — 46 CFR 184.710 46 CFR 160.041

Notes:_____

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☐ Ventilation of machinery installations — 46 CFR 182.470

- Switch for exhaust blower (gasoline vessels) — 46 CFR 182.460(e)
  - Interlocked with ignition
  - Warning sign posted
- Engineroom intake and exhaust ventilation — 46 CFR 182.465 (46 CFR 182.15-45) (46 CFR 182.20-45)
  - Closure devices for spaces with fixed gas extinguishing system
  - Ducts secured and supported

Ventilators	Number and Type	
	Natural	Forced Air
Machinery Space		
Fuel Tank Space		

☐ Vapor detector — 46 CFR 182.480

- Operation procedures posted at operating station
- Proper number of sensors
- Operable for 30 seconds prior to engine start up
- Visual / audible alarm

☐ Machinery guards — 46 CFR 177.960 (46 CFR 177.35-15)

- Installed over exposed gears
- Belts
- Rotating machinery

☐ Vital systems piping — 46 CFR 182.710 (46 CFR 182.40-5)

☐ Watertight bulkheads — 46 CFR 182.720(d) (46 CFR 182.40-1)

- Piping
  - Metallic through fittings
- Valves
  - Reach rods
  - Free of sluice valves — 46 CFR 179.320(d)
  - Operable — 46 CFR 171.114(b)

Notes: _____

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☐ Crew and passenger list — 46 CFR 185.502

Ground Tackle:

☐ Proper ground tackle — 46 CFR 184.300 (46 CFR 184.10-1)

Number of Anchors	Weight (lbs.)

Number of Cables	Length	Size

☐ Mooring lines — 46 CFR 184.300 (46 CFR 184.10-1)

☐ Sails and rigging — 46 CFR 177.330

Lifesaving Equipment:

☐ Stowage of survival craft — 46 CFR 180.130, 46 CFR 180.137

☐ Embarkation aids — 46 CFR 180.150

☐ Number and type of survival craft — 46 CFR 180.200

Item	Number	Capacity (Persons)

Notes: _____

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☐ Pressure vessels required to be periodically tested — 46 CFR 176.812 (46 CFR 176.25-30(a))

- Inspected every 3 years

Service	Working Pressure	Relief Valve Setting	Date Tested or Examined

Electrical Equipment:

☐ Primary power and light system — 46 CFR 183.310

- Voltage _____
- Electrical source
  - Generator
  - Battery
- Grounding — 46 CFR 183.376

☐ Main engine generators — 46 CFR 176.806

☐ Independent generators — 46 CFR 183.322

- Multiple generators
  - Independent prime movers
  - Circuit breakers interlocked
  - Parallel operation must meet Subchapter J

Notes: _____

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- ☐ Hull markings — 46 CFR 185.602 (46 CFR 185.30-3)
  - Draft marks and loading marks
  - Name / hailing port — 46 CFR 67.123
- ☐ Internal compartment structures — 46 CFR 176.802
  - Dry
  - Visible damage
  - Obvious repairs, modifications, or alterations
  - Means of escape
  - Ceilings
  - Inspection ports / ventilation
  - Rails / guards
- ☐ Watertight integrity — 46 CFR 176.802
  - Subdivision watertight bulkheads — 46 CFR 179.360
  - Watertight doors / hatches — 46 CFR 171.124
    - Operable from both sides
    - Captive devices attached to all unhinged covers
    - Coamings (6 inches-exposed routes; 3 inches-protected routes)
    - Knife edges
    - Gaskets
    - Hardware
  - Closure means for openings in hull (local and remote)
- ☐ Scuppers / freeing ports — 46 CFR 171.145, 46 CFR 171.150
- ☐ Dead light covers on port lights below main deck — 46 CFR 171.117, 46 CFR 179.350
- ☐ Deck rail — 46 CFR 177.900
  - Height requirements (39.5 inches minimum)
  - Point load requirements (200 pounds minimum)

Notes:_____

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- ☐ Miscellaneous motors and controllers
  - Proper location — 46 CFR 183.320
  - Grounding — 46 CFR 183.372
- ☐ Lighting fixtures — 46 CFR 183.410 (46 CFR 18.01-5)
  - Suitable guards
  - Properly secured
- ☐ Portable lighting — 46 CFR 183.430 (46 CFR 184.30-1)
  - At least two lights
    - One at operating station
    - One at entrance to propulsion / machinery space
- ☐ Emergency lighting tested — 46 CFR 183.432 (46 CFR 184.30)
  - Type _____
  - Automatically activated
  - Not portable
  - Connected to battery charger
  - Operating capacity—2 hours

Pollution Prevention:

- ☐ Oil pollution placard posted — 33 CFR 155.450
- ☐ MARPOL V placard posted — 33 CFR 151.59
- ☐ Bilges free of oil and trash / debris — 46 CFR 176.830
- ☐ Marine sanitation device — 46 CFR 176.818, 46 CFR 184.704
  - Type _____
  - Sanitary
  - Discharge valve secured and locked — MSM Ch. C2.K.7.f(1)
  - Tank vent 30 x 30 mesh screen — 33 CFR 159.95
  - ¾-full level indicator — 33 CFR 159.83

Notes: _____

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☐ Signaling devices (distress)

- Flares and day smokes (correct number and expiration) — 46 CFR 180.68
- Stowed in brightly colored, portable watertight container
- Marked “Distress Signals” — 46 CFR 185.614
- Substitutions with proper expiration date

IF vessel travels:	**THEN it must carry:**
Oceans / coastwise / limited coastwise / Great Lakes route	6 red hand flares and 6 orange day smokes
Lakes, bays, sounds / rivers route	3 red hand flares and 3 orange day smokes

☐ Internal communications tested — 46 CFR 184.602

- A fixed means of two-way communication from
  - Operating station to machinery space (single screw vessels)
  - Operating station to auxiliary steering single screw vessels)
  - Hand-held radios acceptable

☐ Pilothouse control of propulsion engine systems — 46 CFR 184.620

☐ Radio equipment — 46 CFR 184.502, 47 CFR 80.905

IF vessel travels:	**THEN it must have:**
More than 1000 feet from shore but less than 20 NM	1 VHF
20 NM to 100 NM	1 VHF and 1 MF
100 NM to 200 NM	1 VHF, 1 MF, 1 SSB or INMARSAT radio, and 1 NAVTEX receiver
More than 200 NM	2 VHF, 1 MF, 1 SSB or INMARSAT radio, 1 NAVTEX receiver, 1 distress frequency receiver, and 1 automatic radiotelephone alarm signal generator

Notes:_____

☐ **Abandon Ship Drill:**

General alarms / signals	Language understood by crew	Familiarity with equipment
Muster lists	Lifejackets	Egress procedures
Muster of crew / passengers	Familiarity with duties	Deploy survival craft
Crew response	Provide equipment	Communication w/ bridge

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.h)

Location: _____ Time to Water: _____

Notes: _____

☐ Mate's license — 46 CFR 15.810, 46 CFR 185.402
- Name
- Issue date
- Tonnage
- Route

Logs and Manuals:

☐ Current training logbook — 46 CFR 185.420
- Date
- General description of training

☐ Lifesaving equipment maintenance records — 46 CFR 185.702, SOLAS 74/78 III/18, SOLAS 74/78 III/19
- Periodic checks as required
- Onboard training in use of lifesaving equipment (all crew members)
- Visual inspection of survival craft / rescue boat and launching appliances
- Operation of lifeboat / rescue boat engines
- Lifesaving appliances, including lifeboat equipment examined

☐ Bridge log
- Steering gear drills — SOLAS 74/78 V/19-2
- Emergency steering drills
- Monthly fire and lifeboat drills — SOLAS 74/78 III/25, 46 CFR 185.702, 46 CFR 185.520, 46 CFR 185.524
- Casualties (navigation equipment and steering gear failures reported)

☐ SOLAS training manual — SOLAS 74/78 III/18.2

Notes: _____

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☐ Hull and/or structural members gauged for material thickness as needed — 46 CFR 176.802

☐ Fastenings
- Rivets — NVIC 3-68
- Welding — MSM Vol. IV Ch. 6.H
- Nails, screws, bolts — NVIC 7-95
- Fastenings removed during this inspection

☐ Internal structural members — 46 CFR 176.610, NVIC 7-95
- Bulkheads
- Decks
- Tank tops
- Longitudinals
- Floors
- Frames
- Intercostals
- Stiffeners
- Beams
- Connections
- Signs of electrolysis

☐ Vessel carefully examined for fractures and previous fracture repairs

☐ Forward peak

☐ Lazarette

☐ Solid fixed ballast — 46 CFR 178.510

Watertight Integrity:

NOTE: *Guidance on watertight and weathertight inspections can be found in MSM Volume II, Chapter B1.E.5.*

☐ Hatches — 46 CFR 171.124, MSM Vol. IV Ch. 6.I.5
- Dogs or other securing appliances
- Covers
- Gaskets
- Coamings

Notes: _____

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Name of Certificate	Issuing Agency	ID #	Port Issued	Issue Date	Exp. Date	Endors. Date
FCC Station License No Change	FCC					
FCC Safety Certificate No Change	FCC					
FCC Operations Permit No Change	FCC					
FCC Marine Radio Operator Permit No Change	FCC					

Valves and Through-Hull Fittings:

NOTE: *Guidance on valves and through-hull fittings can be found in MSM Volume II, Chapter B3.F.*

☐ Sea chests, spool pieces, through-hull fittings — 46 CFR 176.610

- Strainers removed
- Welds
- Strainer fastenings
- Fastenings
- Branch connections

☐ Sea valves — 46 CFR 176.610

- Fitted where required
- Opened for examination
- Body
- Guides
- Threads
- Seat
- Stems
- Discs
- Plug cocks
- Holding down bolts
- Closure tested (local and/or remote)

Ground Tackle:

☐ Proper ground tackle — 46 CFR 184.300 (46 CFR 184.10-1)

- Anchors
- Cables

Notes: _____

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Vessel Information:

Last Drydocking Date	Next Drydocking Date
Location of Last Drydocking	
Built Date (use delivery date)	
Overall Length (in feet)	
Maximum Passengers Allowed	
Overnight Accommodations Yes No If yes, how many? _____	

- ☐ Preparatory meeting
- ☐ Duration of underwater survey _____
- ☐ Site selection
  - Sufficient water depth
  - Underwater hazards
  - "Clear box"
- ☐ Plans or drawings
  - Shell openings
  - Docking plugs
  - Bilge keels
  - Welded seams and butts
  - Appendages
  - Anodes
  - Rudder
  - Propeller
  - Reference points
  - Watertight and oiltight bulkheads

Underwater Survey:

- ☐ Preliminary examination
  - Third party
  - Divers
- ☐ Underwater hull exam
  - Third party supervised
  - Ultrasonic gaugings
- ☐ On-site survey

Notes: _____

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Section 1: Administrative Items

IMO Applicability Dates:

Reference	Date
SOLAS 1960	26 MAY 65
SOLAS 1974	25 MAY 80
1978 Protocol to SOLAS 1974	01 MAY 81
1981 Amendments (II-1 & II-2)	01 SEP 84
1983 Amendments (III)	01 JUL 86
Various additional amendments to SOLAS	
MARPOL 73/78 Annex I	02 OCT 83
MARPOL 73/78 Annex V	31 DEC 88
COLREGS 1972	15 JUL 77
Various additional amendments to COLREGS	
Load Line 1966	21 JUL 68
STCW 1978	28 APR 84
1991 Amendments	01 DEC 92
1994 Amendments	01 JAN 96
1995 Amendments	01 FEB 97

Deficiency Summary Worksheet:

Name of Vessel _____ **VIN** _____

Deficiency	MSIS Code	Req't. Issued / Date Completed

Notes:

Total Time Spent Per Activity:

Regular Personnel (Active Duty)			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS

Reserve Personnel			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS

Auxiliary Resources	
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS

Conversions:

Distance and Energy				
Kilowatts (kW)	X	1.341	=	Horsepower (hp)
Feet (ft)	X	3.281	=	Meters (m)
Long Ton (LT)	X	.98421	=	Metric Ton (t)

Liquid ***(NOTE:*** *Values are approximate.)*

Liquid	bbl/LT	m^3/t	bbl/m^3	bbl/t
Freshwater	6.40	1.00	6.29	6.29
Saltwater	6.24	.975	6.13	5.98
Heavy Oil	6.77	1.06	6.66	7.06
DFM	6.60	1.19	7.48	8.91
Lube Oil	7.66	1.20	7.54	9.05

Weight

1 Long Ton	=	2240 lbs		1 Metric Ton	=	2204 lbs	
1 Short Ton	=	2000 lbs		1 Cubic Foot	=	7.48 gal	
1 Barrel (oil)	=	5.61 ft = 42 gal = 6.29 m^3		1 psi	=	.06895 Bar = 2.3106 ft of water	

Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))

0	=	-17.8	80	=	26.7	200	=	93.3
32	=	0	90	=	32.2	250	=	121.1
40	=	4.4	100	=	37.8	300	=	148.9
50	=	10.0	110	=	43.3	400	=	204.4
60	=	15.6	120	=	48.9	500	=	260
70	=	21.1	150	=	65.6	1000	=	537.8

Pressure: Bars = Pounds per square inch

1 Bar	=	14.5 psi	5 Bars	=	72.5 psi	9 Bars	=	130.5 psi
2 bars	=	29.0 psi	6 Bars	=	87.0 psi	10 Bars	=	145.0 psi
3 Bars	=	43.5 psi	7 Bars	=	101.5 psi			
4 Bars	=	58.0 psi	8 Bars	=	116.0 psi			